STATUS OF THE CLAIMS:

The following is the status of the claims of the above-captioned application:

Claim 1. (Previously presented) A 2µm-family plasmid comprising a polynucleotide sequence insertion, deletion and/or substitution between a first base after a last functional codon of at least one of either an *REP* 2 gene or an *FLP* gene and a last base before an FRT site in an inverted repeat adjacent to said gene.

Claim 2. (Previously presented) The 2 μ m-family plasmid of Claim 1 wherein, other than the polynucleotide sequence insertion, deletion and/or substitution, the *FLP* gene and/or the *REP2* gene has the sequence of an *FLP* gene and/or an *REP2* gene from a naturally occurring 2 μ m-family plasmid.

Claim 3. (Previously presented) The 2µm-family plasmid of Claim 1, wherein the plasmid comprises pSR1, pSB3 or pSB4 from *Zygosaccharomyces rouxii*, pSB 1 from *Zygosaccharomyces baill*, pSB2 from *Zygosaccharomyces bailli*, pSM1 from *Zygosaccharomyces fermentati*, pKD1 from *Kluyveromyces drosophilarum*, pPM1 from *Pichia membranaefaciens*, or the 2µm plasmid from *Saccharomyces cerevisiae*.

Claim 4. (Previously presented) The 2µm-family plasmid of Claim 2 wherein the sequence of the inverted repeat adjacent to said *FLP* and/or *REP2* gene is from the sequence of the corresponding inverted repeat in the same naturally occurring 2µm-family plasmid as the sequence from which the gene is from.

Claim 5. (Previously presented) The 2µm-family plasmid of Claim 2 wherein the naturally occurring 2µm-family plasmid is the 2µm plasmid as from *Saccharomyces cerevisiae*.

Claim 6. (Previously presented) The 2µm-family plasmid of Claim 5 wherein the polynucleotide sequence insertion, deletion and/or substitution occurs at a position between a first base of codon 59 of the *REP2* gene and the last base before the FRT site in the adjacent inverted repeat.

Claim 7. (Previously presented) The 2µm-family plasmid of Claim 5 wherein, other than the polynucleotide sequence insertion, deletion and/or substitution, the sequence of the *REP2* gene and the adjacent inverted repeat comprises the nucleotides of SEQ ID NO: 1, or a nucleotide sequence 95% identical to SEQ ID NO:1.

Claim 8. (Previously presented) The 2µm-family plasmid of Claim 1 wherein polynucleotide sequence insertion, deletion and/or substitution occurs at a position between a first base of the inverted repeat and a last base before the FRT site.

Claim 9. (Previously presented) The 2µm-family plasmid of Claim 1 wherein the polynucleotide sequence insertion, deletion and/or substitution occurs between a first base after the end of the *REP2* coding sequence and the last base before the FRT site.

Claim 10. (Previously presented) The 2µm-family plasmid of Claim 1wherein, other than the polynucleotide sequence insertion, deletion and/or substitution, the inverted repeat that follows the *REP2* coding sequence has a sequence from a corresponding region of the 2µm plasmid from *Saccharomyces cerevisiae*.

Claim 11. (Previously presented) The 2µm-family plasmid of Claim 5 wherein the polynucleotide sequence insertion, deletion and/or substitution occurs at a position between a first base of codon 344 of the *FLP* gene and the last base before the FRT site in the adjacent inverted repeat.

Claim 12. (Previously presented) The 2µm-family plasmid of Claim 5 wherein, other than the polynucleotide sequence insertion, deletion and/or substitution, the sequence of the *FLP* coding sequence and the adjacent inverted repeat comprises the nucleotides of SEQ ID NO: 2, or a nucleotide sequence 95% identical to SEQ ID NO:2.

Claim 13 . (Previously presented) The 2µm-family plasmid of Claim 11 wherein the polynucleotide sequence insertion, deletion and/or substitution occurs at a position between a first base of the inverted repeat and the last base before the FRT site.

Claim 14. (Previously presented) The 2µm-family plasmid of Claim 13 wherein the polynucleotide sequence insertion, deletion and/or substitution occurs at a position between a first base after the end of the *FLP* coding sequence and the last base before the FRT site.

Claim 15. (Previously presented) The 2µm-family plasmid of Claim 14 wherein the polynucleotide sequence insertion, deletion and/or substitution occurs at a first base after the end of the *FLP* coding sequence.

Claim 16. (Previously presented) The 2µm-family plasmid of Claim 11 wherein, other than the polynucleotide sequence insertion, deletion and/or substitution, the inverted repeat that follows the *FLP* gene has a sequence from a corresponding region of the 2µm plasmid from *Saccharomyces cerevisiae*.

Claim 17. (Previously presented) The 2µm-family plasmid of Claim 1comprising polynucleotide sequence insertions, deletions and/or substitutions between a first base after the last functional codons of both of the *REP2* gene and the *FLP* gene and a last base before the FRT sites in the inverted repeats adjacent to each of said genes, which polynucleotide sequence insertions, deletions and/or substitutions can be the same or different.

Claim 18. (Previously presented) The 2µm-family plasmid of Claim 1, comprising a polynucleotide sequence insertion, deletion and/or substitution which is not between the first base and the last base.

Claim 19. (Original) The 2µm-family plasmid of Claim 18 wherein the polynucleotide sequence insertion, deletion and/or substitution occurs within an untranscribed region around an ARS sequence.

Claim 20. (Previously presented) The 2µm-family plasmid of Claim 1 wherein the, or at least one, polynucleotide sequence insertion, deletion and/or substitution is a polynucleotide sequence insertion.

Claim 21. (Original) The 2μ m-family plasmid of Claim 20 in which the polynucleotide sequence insertion encodes an open reading frame.

Claim 22. (Original) The 2µm-family plasmid of Claim 21 in which the open reading frame encodes a non-2µm-family plasmid protein.

Claim 23. (Previously presented) The 2µm-family plasmid of Claim 22 in which the non-2µmfamily plasmid protein comprises the sequence of a protein involved in protein folding, or which has chaperone activity or is involved in the unfolded protein response, albumin, a monoclonal antibody, an etoposide, a serum protein, antistasin, a tick anticoagulant peptide, transferrin, lactoferrin, endostatin, angiostatin, collagens, immunoglobulins or immunoglobulin-based molecules or fragments of either (e.g. a dAb, Fab' fragments, F(ab')2, scAb, scFv or scFv fragment), a Kunitz domain protein, interferons, interleukins, IL 10, IL 11, IL2, interferon α species and sub-species, interferon β species and sub-species, interferon γ species and subspecies, leptin, CNTF, CNTF_{Ax15}, IL 1-receptor antagonist, erythropoietin (EPO) and EPO mimics, thrombopoietin (TPO) and TPO mimics, prosaptide, cyanovirin-N, 5-helix, T20 peptide, T1249 peptide, HIV gp4l, HIV gp120, urokinase, prourokinase, tPA, hirudin, platelet derived growth factor, parathyroid hormone, proinsulin, insulin, glucagon, glucagon-like peptides, insulin-like growth factor, calcitonin, growth hormone, transforming growth factor β , tumour necrosis factor, G-CSF, GM-CSF, M-CSF, FGF, coagulation factors in both pre and active forms, including but not limited to plasminogen, fibrinogen, thrombin, pre-thrombin, prothrombin, von Willebrand's factor, α₁-antitrypsin, plasminogen activators, Factor VII, Factor VIII, Factor IX, Factor X and Factor XIII, nerve growth factor, LACI, platelet-derived endothelial cell growth factor (PD-ECGF), glucose oxidase, serum cholinesterase, aprotinin, amyloid precursor protein, inter-alpha trypsin inhibitor, antithrombin III, apo-lipoprotein species, Protein C, or Protein S.

Claim 24. (Previously presented) The 2µm-family plasmid of Claim 23 in which the 2µm-family plasmid protein comprises the sequence of albumin.

Claim 25. (Previously presented) The 2µm-family plasmid of Claim 23 in which the non-2µm-family plasmid protein comprises the sequence of transferrin.

Claim 26. (Previously presented) The 2µm-family plasmid of Claim 23 in which the non-2µm-family plasmid protein comprises the sequence of lactoferrin.

Claim 27. (Previously presented) The 2µm-family plasmid of Claim 23 in which the non-2µm-family plasmid protein comprises the sequence of Fc.

Claim 28. (Original) The 2µm-family plasmid of Claim 23 in which the non-2µm-family plasmid protein comprises the sequence of a protein involved in protein folding, or which has chaperone activity or is involved in the unfolded protein response as encoded by anyone of AHA1, CCT2, CCT3, CCT4, CCT5, CCT6, CCT7, CCT8, CNS1, CPR3,CPR6, EPS1, ERO1, EUG1, FMO1 HCH1, HSP10, HSP12, SP104,HSP26,HSP30,HSP42,HSP60,HSP78,HSP82,JEM1,MDJ1, MDJ2, MPD1, MPD2,PD11,PFD1, ABC1, APJ1, ATP11, ATP12, BTT1, CDC37, CPR7, HSC82, KAR2, LHS1, MGE1, MRS11, NOB1, ECM10,SSA1,SSA2,SSA3,SSA4,SSC1,SSE2,SIL1,SLS1, UBI4,ORM1,ORM2, PER1, PTC2, PSE1 and HAC1 or a truncated intronless HAC1.

Claim 29. (Previously presented) The 2µm-family plasmid of Claim 23 in which the chaperone is protein disulphide isomerase (PDI), or is a protein encoded by *ORM2*, *SSA1* or *PSE1*.

Claim 30. (Previously presented) The 2µm-family plasmid of Claim 22 in which the non-2µm-family plasmid protein comprises a secretion leader sequence.

Claim 31. (Original) The 2µm-family plasmid of Claim 22 in which the non-2µm-family plasmid protein comprises the sequence of a bacterial selectable marker and/or a yeast selectable marker.

Claim 32. (Original) The 2μ m-family plasmid of Claim 31 in which the bacterial selectable marker is a β -lactamase gene and/or the yeast selectable marker is a LEU2 selectable marker.

Claim 33. (Previously presented) The 2µm-family plasmid according to Claim 1, which plasmid comprises (i) a heterologous sequence encoding a non- 2µm-family plasmid protein; (ii) a heterologous sequence encoding a protein comprising the sequence of a protein involved in protein folding, a chaperone or a protein involved in the unfolded protein response; and (iii) a heterologous sequence encoding a protein comprising the sequence of a selectable marker; wherein at least one of the heterologous sequences occurs between the first base after the last functional codon of at least one of either the *REP2* gene or the *FLP* gene and the last base before the FRT site in an inverted repeat adjacent to the gene.

- Claim 34. (Previously presented) A method of preparing a plasmid as defined by Claim 1 comprising:
- (a) providing a plasmid comprising the sequence of a *REP* 2 gene and the inverted repeat that follows the *REP*2 gene, or a *FLP* gene and the inverted repeat that follows the *FLP* gene, in each case the inverted repeat comprising an FRT site;
- (b) providing a polynucleotide sequence and inserting the polynucleotide sequence into the plasmid of Claim 1 between the first base after the last functional codon of at least one of either the *REP2* gene or the *FLP* gene and the last base before the *FRT* site in an inverted repeat adjacent to the gene; and/or
- (c) deleting some or all of the nucleotide bases between the first base after the last functional codon of at least one of either the *REP2* gene or the *FLP* gene and the last base before the FRT site in an inverted repeat adjacent to the gene of Claim 1; and/or
- (d) substituting some or all of the nucleotide bases between the first base after the last functional codon of at least one of either the *REP2* gene or the *FLP* gene and the last base before the FRT site in an inverted repeat adjacent to the gene with alternative nucleotide bases.
- Claim 35. (Original) A plasmid obtainable by the method of Claim 34.
- Claim 36. (Previously presented) A host cell comprising a plasmid as defined by Claim 1.
- Claim 37. (Original) A host cell according to Claim 36 which is a yeast cell.
- Claim 38. (Previously presented) A host cell according to Claim 36 in which the plasmid is stable as a multicopy plasmid.
- Claim 39. (Previously presented) A host cell according to Claim 38 in which the plasmid comprises a polynucleotide sequence insertion, deletion and/or substitution between a first base after a last functional codon of at least one of either an *REP* 2 gene or an *FLP* gene and a last base before an FRT site in an inverted repeat adjacent to said gene.
- Claim 40. (Previously presented) A host cell according to Claim 38 in which, if the plasmid contains, or is modified to contain, a selectable marker then stability, as measured by the loss of the marker, is at least 1%, 2%, 3%, 4%, 5%, 10%, 15%, 20%, 25%, 30%, 40%, 50%, 60%, 70%, 75%, 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99%, 99.9% or 100% after 5 generations.

Claim 41. (Previously presented) A method of producing a protein comprising the steps of-

(a) providing a plasmid as defined by Claim 1;

(b) providing a suitable host cell;

(c) transforming the host cell with the plasmid; and

(d) culturing the transformed host cell in a culture medium;

(e) thereby to produce the protein.

Claim 42. (Previously presented) A method of producing a protein comprising the steps of providing a host cell as defined by Claim 36 which host cell comprises a plasmid comprising a polynucleotide sequence insertion, deletion and/or substitution between the first base after the last functional codon of at least one of either a *REP* 2 gene or an *FLP* gene and the last base before the FRT site in an inverted repeat adjacent to said gene as and culturing the host cell in a culture medium thereby to produce the protein.

Claim 43. (Previously presented) A method according to Claim 41 further comprising the step of isolating the thus produced protein from the cultured host cell or the culture medium.

Claim 44. (Previously presented) A method according to Claim 43 further comprising the step of purifying the thus isolated protein.

Claim 45. (Original) A method according to Claim 44 further comprising the step of formulating the thus purified protein with a carrier or diluent, and optionally presenting the thus formulated protein in a unit form.

Claim 46. (Canceled)

Claim 47. (Previously presented) A method according to Claim 44 further comprising the step of formulating the purified protein with a pharmaceutically acceptable carrier or diluent and optionally presenting the thus formulated protein in a unit dosage form.

Claims 48 - 63. (Canceled).

Claim 64 (Previously presented) The 2µm-family plasmid of Claim 11, wherein the polynucleotide sequence insertion, deletion and/or substitution occurs at an *Hgal* site or an *Fspl* site within the inverted repeat.

Claim 65. (Previously presented) The 2µm-family plasmid of Claim 1, wherein the plasmid comprises a heterologous sequence encoding protein disulphide isomerase.

Claim 66 (Previously presented) The 2µm-family plasmid of Claim 1, wherein the plasmid comprises a heterologous sequence encoding a protein of interest.